CONTENTS

VOL. 31, NO. 1, MARCH 1993

1 *Jens Tang Christensen:* The seasonal variation in breeding and growth of *Mastomys natalensis* (Rodentia: Muridae): evidence for resource limitation

10 *W. N. Ellery, K. Ellery, K. H. Rogers, T. S. McCarthy and B. H. Walker:* Vegetation, hydrology and sedimentation processes as determinants of channel form and dynamics in the northeastern Okavango Delta, Botswana

26 *R. O. Olubayo, J. Jono, G. Orinda, J. G. Groothenhuis and B. L. Hart:* Comparative differences in densities of adult ticks as a function of body size on some East African antelopes

35 *Johan T. du Toit:* The feeding ecology of a very small ruminant, the steenbok (*Raphicerus campestris*)

49 *R. W. Wrangham, M. E. Rogers and G. I. Basuta:* Ape food density in the ground layer in Kibale Forest, Uganda

58 *Jude M. Mathooko:* Availability and selection of mayfly, *Caenis kungu* Kimm. (Ephemeroptera: Caenidae) as a natural source of food by rainbow trout, *Oncorhynchus mykiss* Walb., in a tropical river in Kenya

66 *Arnaud Greth, Marc Vassart and Saoud Anagariyah:* Chemical immobilization in gazelles (*Gazella* sp.) with fentanyl and azeperone

Notes and Records

75 *J. Kabigumila:* Diurnal activity of elephants in Ngorongoro Crater, Tanzania

81 *D. T. Williamson:* Diurnal activity budgets of red lechwe

84 *C. M. Swanepoel:* Baobab phenology and growth in the Zambezi Valley, Zimbabwe

87 **Book Reviews**

VOL. 31, NO. 2, JUNE 1993

91 *S. K. Eltringham and R. C. Malpas:* The conservation status of Uganda's game and forest reserves in 1982 and 1983

106 *J. M. Lock:* Vegetation change in Queen Elizabeth National Park, Uganda: 1970–1988

118 *W. N. Ellery, K. Ellery and T. S. McCarthy:* Plant distribution in islands of the Okavango Delta, Botswana: determinants and feedback interactions

135 *G. T. H. Ellison:* Group size, burrow structure and hoarding activity of pouched mice (*Saccostomus campestris*: Cricetidae) in southern Africa

156 *J. Kabigumila:* Feeding habits of elephants in Ngorongoro Crater, Tanzania

165 *Martin N. Tchamba and Prosper M. Seme:* Diet and feeding behaviour of the forest elephant in the Santchou Reserve, Cameroon

172 *Martyn G. Murray:* Comparative nutrition of wildebeest, hartebeest and topi in the Serengeti

Notes and Records

178 *S. M. Cooper:* Denning behaviour of spotted hyaenas (*Crocuta crocuta*) in Botswana

VOL. 31, NO. 3, SEPTEMBER 1993

181 *Lee J. T. White, Caroline E. G. Tutin and Michel Fernandez:* Group composition and diet of forest elephants, *Loxodonta africana cyclotis* Matschie 1900, in the Lopé Reserve, Gabon

200 *Guyo O. Haro and Gufo Oba:* Dynamics of *Acacia tortilis* litter in the Turkwel River floodplain woodlands, Kenya

210 *Dorothy K. Kgathi and Mary C. Kalikawe:* Seasonal distribution of zebra and wildebeest in Makgadikgadi Pans Game Reserve, Botswana

220 *C. M. Swanepoel:* Baobab damage in Mana Pools National Park, Zimbabwe

226 *Georgina L. Dasilva:* Postural changes and behavioural thermoregulation in *Colobus polykomos:* the effect of climate and diet

242 *T. P. Jackson, J. D. Skinner and P. R. K. Richardson:* Some costs of maintaining a perennial territory in the springbok, *Antidorcas marsupialis*

Notes and Records

255 *Anna L. Marais and J. D. Skinner:* The effect of the ram in synchronization of oestrus in blesbok ewes (*Damaliscus dorcas phillipsi*)

261 *Joel Berger:* Disassociations between black rhinoceros mothers and young calves: ecologically variable or, as yet, undetected behaviour?

265 *E. A. Imevbore and S. S. Ajayi:* Food preference of the African giant snail (*Archachatina marginata*) in captivity

VOL. 31, NO. 4, DECEMBER 1993

269 *David Western and Helen Gichohi:* Segregation effects and impoverishment of savanna parks: the case for ecosystem viability analysis

282 *P. E. Stander, T. B. Nott and M. T. Mentis:* Proposed burning strategy for a semi-arid African savanna

290 *Adrian L. V. Davis and Charles F. Dewhurst:* Climatic and biogeographical associations of Kenyan and northern Tanzanian dung beetles (Coleoptera: Scarabaeidae)

306 *Adrian L. V. Davis:* Biogeographical groups in a southern African, winter rainfall, dung beetle assemblage (Coleoptera: Scarabaeidae)—consequences of climatic history and habitat fragmentation

328 *S. Vrahimis and O. B. Kok:* Daily activity of black wildebeest in a semi-arid environment

337 *Reginald Victor and Efeturi Ojaruega:* Humidity responses of the maize weevil *Sitophilus zeamais* Motsch (Coleoptera: Curculionidae) under laboratory conditions

Notes and Records

343 *R. Ben-Shahar:* Patterns of nutrient contents in grasses of a semi-arid savanna

348 **Book Reviews**

351 **Author index to volume 31**